IN THE CLAIMS:

1. (Currently Amended) A method of producing a thin film using opposing electrodes, said method comprising the step of:

applying a pulse voltage on said opposing electrodes under a pressure of 100 to 1600. Torr in an atmosphere comprising a gaseous raw material including a carbon source to generate discharge plasma so that a thin film is formed on a substrate, wherein said pulse voltage has a pulse duration of 10 to shorter than 1000 nsec.

- 2. (Original) The method of claim 1, wherein said pulse voltage has a pulse rise time of 1000 nsec or shorter.
- 3. (Original) The method of claim 1, wherein said pulse voltage has a pulse fall time of 1000 nsec or shorter.
- 4. (Original) The method of claim 1, wherein said thin film comprises diamond like carbon.
- 5. (Withdrawn) A thin film produced by the method of claim 1.
- 6. (Withdrawn) The thin film of claim 5 comprising diamond like carbon.
- 7. (Withdrawn) The thin film of claim 5 having a hardness of 10 GPa or higher.

8. (New) The method of claim 1, wherein said pulse voltage has a pulse duration -shorter than 500 nsec.